

Title (en)
Discriminative training of models for sequence classification

Title (de)
Unterschiedliche Ausbildung von Modellen für die Folgeklassifizierung

Title (fr)
Formation discriminative de modèles pour classification de séquence

Publication
EP 1939758 A2 20080702 (EN)

Application
EP 07122900 A 20071211

Priority
US 64698306 A 20061228

Abstract (en)
Classification of sequences, such as the translation of natural language sentences, is carried out using an independence assumption. The independence assumption is an assumption that the probability of a correct translation of a source sentence word into a particular target sentence word is independent of the translation of other words in the sentence. Although this assumption is not a correct one, a high level of word translation accuracy is nonetheless achieved. In particular, discriminative training is used to develop models for each target vocabulary word based on a set of features of the corresponding source word in training sentences, with at least one of those features relating to the context of the source word. Each model comprises a weight vector for the corresponding target vocabulary word. The weights comprising the vectors are associated with respective ones of the features; each weight is a measure of the extent to which the presence of that feature for the source word makes it more probable that the target word in question is the correct one.

IPC 8 full level
G06F 17/28 (2006.01)

CPC (source: EP US)
G06F 40/44 (2020.01 - EP US)

Citation (applicant)

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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)

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